Why Risk Your System On Switches Built To Lower Standards?

Trinetics® Vacuum-Type Capacitor Switches Certified To ANSI Single-Phase Requirements

BUILT TOUGH TO MEET THE INDUSTRY'S MOST RIGOROUS TESTS

Trinetics® high-performance vacuum switches from Maysteel are designed and built for reliable, long-life operation — both mechanically and electrically. Maysteel's conservative design approach, which involves the use of premium components such as a Cutler-Hammer vacuum bottle, provides an extra margin of safety. The result is a technically superior product that is strong enough to endure the industry's most rigorous tests. In fact, the Trinetics single-phase switch is the only one tested for capacitor switching at 28.8 kV applied across the switch contacts.

Maysteel®
Electric Utility
Products & Enclosures

Trinetics™

Vacuum-Type Capacitor Switches

Not all capacitor switch manufacturers share Maysteel's conservative approach to vacuum switch construction and testing — which assures reliable operation even in the most severe conditions. Following is a side-by-side comparison with one of the industry's most popular vacuum switches:

VS SERIES FEATURE	MAYSTEEL	BRAND X	MAYSTEEL ADVANTAGE
Vacuum Bottle Gap	0.375"	0.1875"	The size of the gap between the contacts within the bottle is important. The larger gap increases dielectric strength, providing higher BIL capability and restrike-free operation at higher voltages.
Vacuum Bottle Volume	16 cu.in.	12 cu.in.	Smaller volume increases tendency of switch to restrike.
Likelihood of Destructive Switch Restriking	Low	High	Restriking of the switch contacts causes overvoltage stress on the capacitors and other components connected to the capacitor bank, as well as the switch insulation. Repeated restriking causes premature failure of these devices.
ANSI Single-Phase Test	Yes	No	Maysteel tests to ANSI single-phase standards. Brand X tests to less-stringent three-phase standards. Single-phase standards require test voltage of 1.20 times the rated voltage; three-phase requires only 0.87 times the rated voltage.
Certified Single-Phase Test Results Available	Yes	No	Certified test results at ANSI-specified maximum voltage and in-rush current are the best assurance of dependable performance in your application.
High Frequency Transient-Making Current (Peak)	12 kA	6 kA	In the event of back-to-back switching (see ANSI C37.66), the Trinetics switch is capable of withstanding 12,000 amps in-rush, versus 6,000 amps for Brand X.
Vacuum Bottle Type	Cutler-Hammer	Special	Field-proven Cutler-Hammer technology.
Primary Cable Connections	Standard V	Special	Standard V bushing configuration eliminates risk of improper orientation of cables in installation. Brand X switches require special installation procedures.
Operating Mechanism	Electric Motor	Solenoid	Electric motor provides dependable operation and draws much lower current (3 amps) than solenoid (12 amps).
Manual Trip and Close	Yes	Trip-Option Close-No	Cost savings. Eliminates need for upgrade. Provides ability to close the switch when control voltage is not available. ANSI C37.66 requires distribution capacitor switches to have manual trip and manual close.
Manual Rating	Same As Electrical	De-Rated	Maysteel provides no performance loss in manual operation.
Animal Protectors	Yes	Option	Cost savings. Eliminates need for upgrade.
Ability to Rotate Bushings	Yes	No	Provides mounting flexibility on capacitor banks.

www.maysteel.com

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